

LLL IIIIIIIIII 888888888888 RRRRRRRRRRRRRR TTTTTTTTTTTTTTT LLL
LLL IIIIIIIIII 888888888888 RRRRRRRRRRRRRR TTTTTTTTTTTTTTT LLL
LLL IIIIIIIIII 888888888888 RRRRRRRRRRRRRR TTTTTTTTTTTTTTT LLL
LLL IIIIIIII 888 BBB RRR RRR RRR TTT LLL
LLL IIIIIIII 888 BBB RRR RRR RRR TTT LLL
LLL IIIIIIII 888 BBB RRR RRR RRR TTT LLL
LLL IIIIIIII 888 BBB RRR RRR RRR TTT LLL
LLL IIIIIIII 888 BBB RRR RRR RRR TTT LLL
LLL IIIIIIII 888 BBB RRR RRR RRR TTT LLL
LLL IIIIIIII 888 BBB RRR RRR RRR TTT LLL
LLL IIIIIIII 888888888888 RRRRRRRRRRRRRR TTT LLL
LLL IIIIIIII 888888888888 RRRRRRRRRRRRRR TTT LLL
LLL IIIIIIII 888888888888 RRRRRRRRRRRRRR TTT LLL
LLL IIIIIIII 888 BBB RRR RRR RRR TTT LLL
LLL IIIIIIII 888 BBB RRR RRR RRR TTT LLL
LLL IIIIIIII 888 BBB RRR RRR RRR TTT LLL
LLL IIIIIIII 888 BBB RRR RRR RRR TTT LLL
LLL IIIIIIII 888888888888 RRR RRR TTT LLL
LLL IIIIIIII 888888888888 RRR RRR TTT LLL
LLL IIIIIIII 888888888888 RRR RRR TTT LLL

****FILE**ID**STRLENEXT**

G 12

S1
Ta

SSSSSSSS SSSSSSSS TTTTTTTTTT RRRRRRRRR LL EEEEEEEEEE NN NN EEEEEEEEEE XX XX TTTTTTTTTT
SSSSSSSS SSSSSSSS TTTTTTTTTT RRRRRRRRR LL EEEEEEEEEE NN NN EEEEEEEEEE XX XX TTTTTTTTTT
SS SS TT RR RR LL EE NN NN EE XX XX TT
SS SS TT RR RR LL EE NNNN NN EE XX XX TT
SS SS TT RR RR LL EE NNNN NN EE XX XX TT
SS SS TT RR RR LL EEEEEEEE NN NN EEEEEEEE XX XX TT
SSSSSS SSSSSS TT RRRRRRRR LL EEEEEEEE NN NN EEEEEEEE XX XX TT
SSSSSS SSSSSS TT RRRRRRRR LL EEEEEEEE NN NN EEEEEEEE XX XX TT
SS SS TT RR RR LL EE NN NNNN EE XX XX TT
SS SS TT RR RR LL EE NN NNNN EE XX XX TT
SS SS TT RR RR LL EE NN NN EE XX XX TT
SS SS TT RR RR LL EEEEEEEE NN NN EEEEEEEE XX XX TT
SSSSSSSS SSSSSSSS TT RR RR LLLLLLLL EEEEEEEE NN NN EEEEEEEE XX XX TT
SSSSSSSS SSSSSSSS TT RR RR LLLLLLLL EEEEEEEE NN NN EEEEEEEE XX XX TT

The image features a large, stylized letter 'L' on the left side, constructed from numerous vertical bars of varying lengths. To its right is a large, stylized letter 'S' on the far right, also composed of diagonal bars. The background is white, and the letters are rendered in a dark, monochromatic color.

```
1 0001 0 MODULE STR$LEN_EXTR ( ! Extract a substr by length
2 0002 0
3 0003 0 IDENT = '1-012' ! File: STRLENEXT.B32 Edit: RKR1012
4 0004 0
5 0005 0 ) =
6 0006 1 BEGIN
7 0007 1
8 0008 1 *****
9 0009 1 *
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27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1
32 0032 1 ++
33 0033 1 | FACILITY: String support library
34 0034 1
35 0035 1 | ABSTRACT:
36 0036 1
37 0037 1 | This module extracts a substring according to the BASIC-PLUS-2
38 0038 1 | syntax. It finds the substring of a main string starting at the
39 0039 1 | character position specified by the second input parameter and
40 0040 1 | continues for the number of characters specified by the third
41 0041 1 | input parameter. This substring is copied to the destination
42 0042 1 | string.
43 0043 1
44 0044 1 | ENVIRONMENT: User mode, AST level or not or mixed
45 0045 1
46 0046 1 | AUTHOR: R. Will, CREATION DATE: 21-Feb-79
47 0047 1
48 0048 1 | MODIFIED BY:
49 0049 1
50 0050 1 | R. Will, 21-Feb-79: VERSION 01
51 0051 1 | 1-001 - Original
52 0052 1 | 1-002 - Change linkage and call to COPY routine. 15-Mar-79 RW
53 0053 1 | 1-003 - Change string linkages to start with STR$. JBS 04-JUN-1979
54 0054 1 | 1-004 - Change call to STR$COPY. JBS 16-JUL-1979
55 0055 1 | 1-005 - String cleanup, change name to STR$. RW 1-Nov-79
56 0056 1 | 1-006 - Make the module name agree with the entry point name, and
57 0057 1 | correct the PSECT name. JBS 02-NOV-1979
```

: 58 0058 1 | 1-007 - Use new interlock macros. JBS 06-NOV-1979
.: 59 0059 1 | 1-008 - Interlock only from CALL entry. RW 15-Nov-79
.: 60 0060 1 | 1-009 - String speedup, remove edit 8. RW 8-Jan-1980
.: 61 0061 1 | 1-010 - Enhance to recognize additional classes of descriptors by
.: 62 0062 1 | using \$STR\$GET_LEN_ADDR to extract length and address of
.: 63 0063 1 | 1st data byte from a descriptor. Remove string interlock
.: 64 0064 1 | code. RKR 21-APR-81
.: 65 0065 1 | 1-011 - Speed up code. RKR 7-OCT-1981.
.: 66 0066 1 | 1-012 - Use STR\$COPY_R_R8 for copy operation. Use \$STR\$SISGNAL_FATAL
.: 67 0067 1 | instead of \$STR\$CHECK_STATUS. RKR 18-NOV-1981.
.: 68 0068 1 | --
.: 69 0069 1 |
.: 70 0070 1 !<BLF/PAGE>

```

72 0071 1 : SWITCHES:
73 0072 1 : SWITCHES ADDRESSING MODE
74 0073 1 : (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
75 0074 1 :
76 0075 1 : LINKAGES:
77 0076 1 :
78 0077 1 :
79 0078 1 :
80 0079 1 : REQUIRE 'RTLIN:STRLINK';           ! Use require file with string linkage
81 0080 1 :
82 0081 1 :
83 0082 1 : FORWARD ROUTINE
84 0083 1 :     STRSLEN_EXTR,
85 0084 1 :     STRSLEN_EXTR_R8 : STR$JSB_LEN_EXT; ! Extract a substring by len, CALL
86 0085 1 :             ! Extract a substr by len,    JSB
87 0086 1 :
88 0087 1 : TABLE OF CONTENTS:
89 0088 1 :
90 0089 1 : INCLUDE FILES:
91 0090 1 :
92 0091 1 : REQUIRE 'RTLIN:RTLPSECT';        ! Declare PSECTS code
93 0092 1 :
94 0093 1 : REQUIRE 'RTLIN:STRMACROS';      ! use string macros to code
95 0094 1 :
96 0095 1 : LIBRARY 'RTLSTARLE';          ! STARLET library for macros and symbol
97 0096 1 :
98 0097 1 : MACROS:
99 0098 1 :
100 0099 1 :     NONE
101 0100 1 :
102 0101 1 : EQUATED SYMBOLS:
103 0102 1 :
104 0103 1 :     NONE
105 0104 1 :
106 0105 1 : PSECT DECLARATIONS
107 0106 1 :
108 0107 1 : DECLARE_PSECTS (STR);
109 0108 1 :
110 0109 1 : OWN STORAGE:
111 0110 1 :
112 0111 1 :     NONE
113 0112 1 :
114 0113 1 : EXTERNAL REFERENCES:
115 0114 1 :
116 0115 1 :
117 0116 1 : EXTERNAL ROUTINE
118 0117 1 :     LIB$STOP,
119 0118 1 :     STR$COPY_R_R8 : STR$JSB_COPY_R ; ! signal fatal errors
120 0119 1 :                         ! Routine to do the copy
121 0120 1 :
122 0121 1 :
123 0122 1 :
124 0123 1 :
125 0124 1 :
126 0125 1 :
127 0126 1 :
128 0127 1 :

```

STR\$LEN_EXTR
1-012

: 129 1321 1 EXTERNAL LITERAL
: 130 1322 1 STR\$_NORMAL,
: 131 1323 1 STR\$_NEGSTRLEN,
: 132 1324 1 STR\$_ILLSTRPOS,
: 133 1325 1 STR\$_ILLSTRSPE;

K 12
16-Sep-1984 01:41:37 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:40:08 [LIBRTL.SRC]STRLENEXT.B32;1

Page (2)

! successful completion
! negative string length
! illegal string position
! illegal string specification

```

135      1326 1 GLOBAL ROUTINE STR$LEN_EXTR (
136      1327 1                                ! extract a substring by len
137      1328 1 DEST_DESC.                      ! Pointer to destination descriptor
138      1329 1 SRC_DESC.                      ! Pointer to source descriptor
139      1330 1 CHAR_POS.                     ! First character to be included
140      1331 1 SUB_LENGTH.                   ! Length of the substring
141
142      1332 1
143      1333 1
144      1334 1
145      1335 1 ++
146      1336 1 FUNCTIONAL DESCRIPTION:
147      1337 1
148      1338 1 This routine extracts the characters starting at the
149      1339 1 character position in the source string specified by the input
150      1340 1 parameter and continuing for the number of characters specified
151      1341 1 by the input, and copies that substring
152      1342 1 to the destination string (by JSB to STR$COPY_R_R8) according
153      1343 1 to the syntax of the class of the destination string.
154      1344 1 If the input character position is < 1, 1 is used. If
155      1345 1 the input character position is > the length
156      1346 1 of the source string, then the destination string becomes a null
157      1347 1 string. If the substring length is < 1 a null string is
158      1348 1 returned.
159      1349 1 If character position + substring length - 1 > source string
160      1350 1 length then the source string length is used. The CALL entry
161      1351 1 point is implemented by calling the JSB entry point.
162      1352 1
163      1353 1 FORMAL PARAMETERS:
164      1354 1
165      1355 1 DEST_DESC.wt.dx   pointer to destination string descriptor
166      1356 1 SRC_DESC.rt.dx  pointer to source string descriptor
167      1357 1 CHAR_POS.rl.r   character position in src to start
168      1358 1
169      1359 1 SUB_LENGTH.rl.r  substring length of substring
170      1360 1
171      1361 1 IMPLICIT INPUTS:
172      1362 1
173      1363 1
174      1364 1
175      1365 1 IMPLICIT OUTPUTS:
176      1366 1
177      1367 1
178      1368 1
179      1369 1
180      1370 1 COMPLETION CODES:
181      1371 1 SSS_NORMAL        Success
182      1372 1 STR$_ILLSTRPOS   Character position reference outside of string
183      1373 1 STR$_ILLSTRSPE   End pos < start pos, or length too long
184      1374 1 STR$_NEGSTRLEN   Negative length supplied, 0 used
185      1375 1 STR$_TRU          Truncation occurred in copying to destination
186      1376 1
187      1377 1
188      1378 1
189      1379 1
190      1380 1
191      1381 1 SIDE EFFECTS:
192      1382 1
193
194      May signal:
195      1380 1     STR$_FATINTERR   Fatal internal error
196      1381 1     STR$_ILLSTRCLA  Illegal (or unsupported) string class

```

```

: 192      1383 1 | STR$_INSVIRMEM    Insufficient virtual memory for
: 193      1384 1 | reallocation of dynamic string
: 194      1385 1 |
: 195      1386 1 |--.
: 196      1387 1 |
: 197      1388 2   BEGIN
: 198      1389 2   MAP
: 199      1390 2     SRC_DESC : REF $STR$DESCRIPTOR,
: 200      1391 2     DEST_DESC : REF $STR$DESCRIPTOR;
: 201      1392 2
: 202      1393 2
: 203      1394 2   RETURN STR$LEN_EXTR_R8 ( DEST_DESC [0,0,0,0],
: 204      1395 2     SRC_DESC [0,0,0,0],
: 205      1396 2     ::CHAR_POS,
: 206      1397 2     ::SUB_LENGTH);
: 207      1398 1   END;                                !End of STR$LEN_EXTR

```

```

.TITLE STR$LEN_EXTR
.IDENT \1-012\

.EXTRN LIB$STOP, STR$COPY R R8
.EXTRN STR$ NORMAL, STR$ NEGSTRLEN
.EXTRN STR$_ILLSTRPOS, STR$_ILLSTRSPE

.PSECT _STR$CODE,NOWRT, SHR, PIC,2

      01FC 00000          .ENTRY STR$LEN_EXTR, Save R2,R3,R4,R5,R6,R7,R8 : 1326
53     10 BC D0 00002        MOVL @SUB LENGTH, R3 : 1395
52     0C BC D0 00006        MOVL @CHAR POS, R2
50     04 AC 7D 0000A        MOVQ DEST DESC, R0
                      0000V 30 0000E        BSBW STR$LEN_EXTR_R8
                      04 00011        RET

```

; Routine Size: 18 bytes, Routine Base: _STR\$CODE + 0000

```
209      1399 1 GLOBAL ROUTINE STR$LEN_EXTR_R8 (           ! extract a substring by len
210      1400 1
211      1401 1     DEST_DESC,          ! Pointer to destination descriptor
212      1402 1     SRC_DESC,          ! Pointer to source descriptor
213      1403 1     CHAR_POS,         ! First character to be included
214      1404 1     SUB_LENGTH        ! Length of the substring
215      1405 1
216      1406 1
217      1407 1
218      1408 1     ) : STR$JSB_LEN_EXT =
219      1409 1
220      1410 1     ++
221      1411 1     FUNCTIONAL DESCRIPTION:
222      1412 1     This routine extracts the characters starting at the
223      1413 1     character position in the source string specified by the input
224      1414 1     parameter and continuing for the number of characters specified
225      1415 1     by the input, and copies that substring
226      1416 1     to the destination string (by JSB to STR$COPY_R_R8) according
227      1417 1     to the syntax of the class of the destination string.
228      1418 1     If the input character position is < 1, 1 is used. If
229      1419 1     the input character position is > the length
230      1420 1     of the source string, then the destination string becomes a null
231      1421 1     string. If the substring length is < 1 a null string is
232      1422 1     returned.
233      1423 1     If character position + substring length - 1 > source string
234      1424 1     length then the source string length is used.
235      1425 1
236      1426 1     FORMAL PARAMETERS:
237      1427 1     DEST_DESC.wt.dx    pointer to destination string descriptor
238      1428 1     SRC_DESC.rt.dx   pointer to source string descriptor
239      1429 1     CHAR_POS.rl.v   character position in src to start
240      1430 1     SUB_LENGTH.rl.v  substring length of substring
241      1431 1
242      1432 1
243      1433 1     IMPLICIT INPUTS:
244      1434 1     NONE
245      1435 1
246      1436 1
247      1437 1     IMPLICIT OUTPUTS:
248      1438 1     NONE
249      1439 1
250      1440 1
251      1441 1     COMPLETION CODES:
252      1442 1
253      1443 1     SSS_NORMAL       Success
254      1444 1     STR$_ILLSTRPOS  Character position reference outside of string
255      1445 1     STR$_ILLSTRSPE  End pos < start pos, or length too long
256      1446 1     STR$_NEGSTRLEN Negative length supplied, 0 used
257      1447 1     STR$_TRU        Truncation occurred in copying to destination
258      1448 1     (Warning)
259      1449 1
260      1450 1     SIDE EFFECTS:
261      1451 1
262      1452 1     May signal:
263      1453 1     STR$_FATINTERR  Fatal internal error
264      1454 1     STR$_ILLSTRCLA  Illegal (or unsupported) string class
265      1455 1     STR$_INSVIRMEM Insufficient virtual memory for
```

```
: 266      1456 1 |           reallocation of dynamic string
: 267      1457 1 |
: 268      1458 1 |-- BEGIN
: 269      1459 1
: 270      1460 2 LOCAL
: 271      1461 2
: 272      1462 2
: 273      1463 2   IN_LEN,          ! Length of source string
: 274      1464 2   IN_ADDR,        ! addr of 1st byte of source string
: 275      1465 2   START_POS,     ! CHAR_POS corrected for errors
: 276      1466 2   LENGTH,         ! SUB_LENGTH corrected for errors
: 277      1467 2   COPY_STATUS,    ! status returned by copy
: 278      1468 2   RETURN_STATUS; ! keep the routine status
: 279      1469 2
: 280      1470 2 MAP
: 281      1471 2   SRC_DESC : REF $STR$DESCRIPTOR,
: 282      1472 2   DEST_DESC : REF $STR$DESCRIPTOR;
: 283      1473 2
: 284      1474 2   RETURN_STATUS = 1; ! Assume success to follow
: 285      1475 2
: 286      1476 2 |+
: 287      1477 2 | Extract length and address of 1st byte of source string. Signal fatal
: 288      1478 2 | errors encountered.
: 289      1479 2 |
: 290      1480 2   $STR$GET_LEN_ADDR ( SRC_DESC, IN_LEN, IN_ADDR );
: 291      1481 2
: 292      1482 2   START_POS =
: 293      1483 3     BEGIN
: 294      1484 3     IF .IN_LEN LSS .CHAR_POS - 1
: 295      1485 3     THEN
: 296      1486 4       BEGIN
: 297      1487 4       RETURN_STATUS = STR$_ILLSTRPOS; ! input position is illegal
: 298      1488 4
: 299      1489 4       .IN_LEN                      ! use srclen and remem er error
: 300      1490 4     END
: 301      1491 3     ELSE
: 302      1492 3       .CHAR_POS - 1          ! use original position
: 303      1493 2     END;
: 304      1494 2
: 305      1495 2     IF .START_POS LSS 0 THEN
: 306      1496 3       BEGIN
: 307      1497 3       START_POS = 0;          ! input position is negative
: 308      1498 3       RETURN_STATUS = STR$_ILLSTRPOS; ! use 0 and remember error
: 309      1499 2     END;
: 310      1500 2
: 311      1501 2     LENGTH =
: 312      1502 3     BEGIN
: 313      1503 3     IF (.IN_LEN - .START_POS) LSS .SUB_LENGTH
: 314      1504 3     THEN
: 315      1505 4       BEGIN
: 316      1506 4       RETURN_STATUS = STR$_ILLSTRSPE;! input length is too large
: 317      1507 4
: 318      1508 4       .IN_LEN - .START_POS      ! compute length, give error
: 319      1509 4     END
: 320      1510 4
: 321      1511 3     ELSE
: 322      1512 3       .SUB_LENGTH          ! use orignal length
```

```

323      1513 2      END:
324      1514 2
325      1515 2      IF .LENGTH LSS 0 THEN
326      1516 3      BEGIN
327      1517 3      LENGTH = 0;
328      1518 3      RETURN_STATUS = STRS_NEGSTRLEN; ! input length is negative
329      1519 2      END;
330      1520 2
331      1521 2      + Copy to descriptor of the destination for length as computed above.
332      1522 2      Pointer is the sum - 1 of the source pointer and input character
333      1523 2      position (which must be > 0 and <= source length).
334      1524 2
335      1525 2      - COPY_STATUS =
336      1526 2      STRSCOPY_R_R8 ( .DEST_DESC, .LENGTH,
337      1527 2          CH$PLUS (.IN_ADDR, .START_POS) );
338      1528 2
339      1529 2      IF .COPY_STATUS NEQ SSS_NORMAL
340      1530 2      THEN RETURN_STATUS = .COPY_STATUS; ! copy truncated, return
341      1531 2          ! truncate instead of previous
342      1532 2          ! status
343      1533 2
344      1534 2      SSTR$SIGNAL_FATAL (RETURN_STATUS); ! signal fatal errors
345      1535 2
346      1536 2      RETURN .RETURN_STATUS;
347      1537 1      END; !End of STR$LEN_EXTR_R8

```

.EXTRN STR\$ANALYZE_SDESC_R1

55	50	00 00000 STR\$LEN_EXTR_R8::		
		MOVL R0, R5		1399
02	03	01 DD 00003 PUSHL #1		1474
		A1 91 00005 CMPB 3(SRC_DESC), #2		1480
50	04	09 1A 00009 BGTRU 1\$		
54		61 3C 0000B MOVZWL (SRC_DESC), IN_LEN		
		A1 D0 0000E MOVL 4(SRC_DESC), IN_ADDR		
50		0C 11 00012 BRB 2\$		
		51 D0 00014 1\$: MOVL SRC_DESC, R0		
		00 16 00017 JSB STR\$ANALYZE_SDESC_R1		
54		51 D0 0001D MOVL R1, R4		
		52 D7 00020 2\$: DECL R2		1484
52		50 D1 00022 CMPL IN_LEN, R2		
		0A 18 00025 BGEQ 3\$		
6E	00000000G	8F D0 00027 MOVL #STR\$_ILLSTRPOS, RETURN_STATUS		1487
52		50 D0 0002E MOVL IN_LEN, START_POS		1489
		52 D5 00031 3\$: TSTL START_POS		1495
		09 18 00033 BGEQ 4\$		
6E	00000000G	52 D4 00035 CLRL START_POS		1497
50		8F D0 00037 MOVL #STR\$_ILLSTRPOS, RETURN_STATUS		1498
53		52 C2 0003E 4\$: SUBL2 START_POS, R0		1503
		50 D1 00041 CMPL R0, SUB_LENGTH		
6E	00000000G	OC 18 00044 BGEQ 5\$		
51		8F D0 00046 MOVL #STR\$_ILLSTRSPE, RETURN_STATUS		1506
		50 D0 0004D MOVL R0, LENGTH		1508
51		03 11 00050 BRB 6\$		
		53 D0 00052 5\$: MOVL SUB_LENGTH, LENGTH		1512

		09	18	00055	6\$:	BGEQ	7\$		1515
		51	D4	0005		CLRL	LENGTH		1517
		6E	0000000G	8F	DD	00059	#STR\$ NEGSTRLEN, RETURN_STATUS		1518
		52		54	CO	00060	DDL2 IN ADDR R2		1528
		50		55	DO	00063	MOVL DEST DESC, R0		
		01	0000000G	00	16	00066	JSB STR\$COPY R8		
				50	D1	0006C	CMPL COPY_STATUS, #1		1530
				03	13	0006F	BEQL 8\$		
		04	6E	50	DO	00071	MOVL COPY_STATUS, RETURN_STATUS		1531
			10	6E	E8	00074	BLBS RETURN_STATUS, 9\$		1535
			03	00	ED	00077	CMPZV #0, #3, RETURN_STATUS, #4		
				09	12	0007C	BNEQ 9\$		
			0000000G	6E	DD	0007E	PUSHL RETURN_STATUS		
			00	01	FB	00080	CALLS #1, LIB\$STOP		
				50	8E	00087	MOVL RETURN_STATUS, R0		1536
					05	0008A	RSB		1537

: Routine Size: 139 bytes. Routine Base: _STR\$CODE + 0012

: 348 1538 1
: 349 1539 1 END
: 350 1540 1 !End of module
: 351 1541 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
_STR\$CODE	157	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	----- Symbols -----	Total	Loaded	Percent	Pages Mapped	Processing Time
\$_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	7	0	581	00:00.7	

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LISS:STRLENEXT/OBJ=OBJ\$:STRLENEXT MSRC\$:STRLENEXT/UPDATE=(ENH\$:STRLENEXT)

STR\$LEN_EXTR
1-012

E 13
16-Sep-1984 01:41:37 VAX-11 Bliss-32 V4.0-742

Page 11

: Size: 157 code + 0 data bytes
: Run Time: 00:06.0
: Elapsed Time: 00:29.3
: Lines/CPU Min: 15461
: Lexemes/CPU-Min: 33461
: Memory Used: 91 pages
: Compilation Complete

S
S
P
-
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C
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0214 AH-BT13A-SE
VAX/VMS V4.0

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STRMOUD
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